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VITTORF, M. V.

"Principal Tendencies in the Development and Construction of Drilling and Mine Drilling Machinery"

(New Developments in the Methods and Techniques of Geological Exploration) Leningrad, Gostoptekhizdat, 1958, 423 p. (Series: Its: Sbornik trudov I)

NITTORI, M.V.

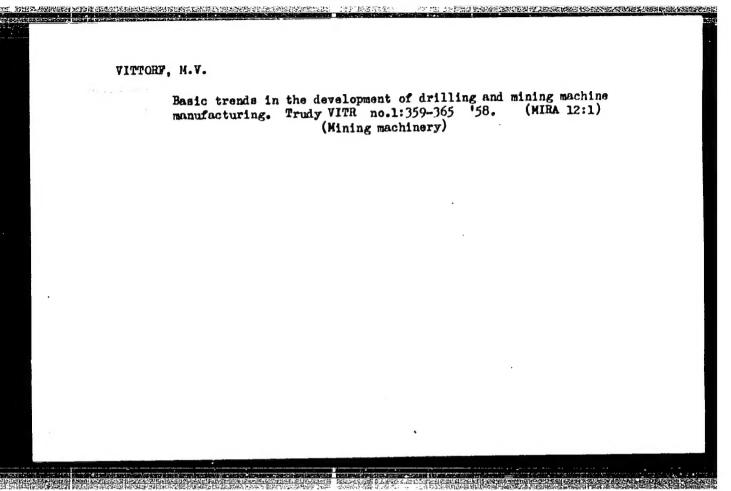
MARAMZIN, Aleksandr Vasil'yevich; YEMOLAYMV, Vasiliy Mikhaylovich;

VITTORI, M.V., redaktor; PERMINOV,S.V., redaktor; GENAD'YEVA,

1.M., tekhnicheskiy redaktor

[Drilling structural and exploratory wells] Burenie strukturnopoiskovykh skvazhin. Jeningrad, Gos.nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1955. 363 p. (MIRA 9:3)

(Boring machinery) (Oil well drilling)



"APPROVED FOR RELEASE: 09/01/2001 CIA

CIA-RDP86-00513R001860130002-0

VITTORIO, OINCEPPE di

Italy - Trade Unions

Role of trade - unions in the defense of democracy. Ysem. prof. dvizh. no. 1', 1972.

Monthly List of Bussian Accessions, Library of Convress, Movember 1952. UNCLASSIFED

VITTORIO, OUISIPPE di

TRADE=UNIONS - ITALY

Role of trade-union in the defense of democracy. Vsem. prof. dvizh. no. 11, 1752.

Monthly List of Russian Accessions, Library of Congress, Povember, 1952, WEGLASSIFIED

Trade-Unions
Our fundamental task is the defense of trade-union rights. Vsem.prof.divzh. No. 15, 1952.

VITTORIG GUISEPPE DI

9. Monthly List of Russian Accessions, Library of Congress, December 1953, Unclassified.

MYULLER_BUSHBADM, G. [Muller-Buschbaum, H.]; VITTSMAN, G. [Witzmann, H.]

Fluorescence of rare earths. Opt. i spektr. 18 no.4:621-627

Ap 165.

1. The litut fizicheskoy khimii Greyfaval dskogo universiteta Germanskoy Pamokraticheskoy Respubliki.

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| 15: | SOURCE: Optika i spektroskoplya, v. 1 | 8, no. 4, 1965, 622-627 | | |
| | TOPIC TAGS: rare earth, fluorescence, | borate, luminor, emission | ur speceration | |
| · | TOPIC TAGS: rare earth, fluorescence, tor ABSTRACT: Part I of the article was published in as investigation as investigation of over previously explained activated unitary list has shown that all such it is characteristic of fluorite type str | ublished in Opt. i spekts on of the redistribution of the redistri | of energy in approximate that from and excited ine spectrum, serious to the spectrum, serious to the spectrum. | 1965. : samari- ** : viib wh. b |

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s/009/60/000/005/002/003 B027/B076

AUTHORS:

Ovanesov, G. P., Vitugin, P. I.

TITLE:

Prospecting for oil in Famennian deposits of Bashkiriya

PERIODICAL:

Geologiya nefti i gaza, no. 5, 1960, 6-9

TEXT: In February 1957, it was for the first time determined that the oil occurrence in the upper Famennian deposits in Bashkiriya are of industrial importance. A contimous yield of 30 tons/24 h from different drillings indicates that the entire Tuymazy-Serafimovskoye area is prospective with regard to Famennian oil. In various fields the occurrence of oil was discovered in the carbonate deposits of the Devonian and Carboniferous layers, so that it is absolutely necessary to intensify prospecting on the Bashkir plateau. The oilfield Subkhankulovskoye, the best known deposit with accumulations in the carbonate is tentatively being exploited. This oilfield has a typical plateau structure in a southwest to northeast direction; the fold has two domes. 19 drillings were made, 12 of them yielded such amounts of oil that an industrial utilization is possible. The Famennian oil is approximately three times less viscous than oil from

Card 1/3

S/009/60/000/005/002/003 B027/B076

Prospecting for oil in Famennian ...

the carbonaceous layer of the Serafimovskoye oilfield and contains less sulfur. As a rule, the oil is deposited between the individual layers of cracked limestone. It is difficult to determine the water-oil contact, as at the same intervals oil was obtained from some wells without water and from others oilfield water without oil was obtained. It is possible that the oilfield water penetrates from other zones or through fissures into the lower layers; it is also possible that water bearing horizons are present in the lower Famennian layers. From these findings the authors conclude that oil occurrences in the carbonate deposits are of peculiar type and difficultly to be exploited. At present, promising oil bearing carbonate deposits are being determined according to the findings of the drilling, such as core or oil in the washing fluid. The sinking of the bore holes is also difficult as the washing fluid penetrates into the fissures of the productive part of the cross section and obstructs them. Research institutes and industrial organisations have until now devoted too little attention to the carbonate rock formations and their oil bearing characteristics. Reliable geophysical methods for the determination of individual porous parts and for estimating the oil bearing characteristics are necessary and also the carbonate layers must be more

Card 2/3

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CIA-RDP86-00513R001860130002-0

Prospecting for oil in Famennian...

carefully studied. There are 2 figures.

ASSOCIATION: Bashneft', Oktyabr'skneft'

S/009/60/000/005/002/003 B027/B076

Card 3/3

OVANESOV, G.P.; VITUGIN, P.I.; YEFREMOV, Ye.P.

Results of forced production of the layer D_{II} of the Konstantinovskoye field. Geol. nefti i gaza 6 no.6:12-16
Je '62. (MIRA 15:6)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860130002-0

OVANESOV, G.P.; VITUGIN, P.I. Prospecting for oil in Famenennian sediments of Bashkiria. Geol. (MIRA 13:9)

nefti i gaza 4 no.5:6-9 My '60.

1. Obeyedineniye Bashkirskoy neftyanoy promyshlennosti i Oktyabrisk-(Bashkiria-Petroleum geology) neft!.

VITUKEVICH, E.R., kand. biolog. nauk

In the quarantine imboratories of the Ukraine. Zashch. rast. ot (MIRA 17:6)

1. Ukrainskaya karantinnaya laboratoriya.

VITUKEVICH, E.R., kand.biolog.nauk

Causes of crinosis on totato tubers. Zashch.rast.ot vred.i bol.

(MIRA 15:11)

(Potatoes-Diseases and pests)

USSR/Plant Diseases. Diseases of Cultivated Plants

9-3

Abs Jour : Ref Zhur - Biol., No 20, 1958, No 91963

: Vitukevich E.R. Author

Inst

: Ukrainian Scientific Research Institute for Vegetable Raising

and Potatoes

: Studies on the Developmental Conditions of Patata Dry Rat in Title

Storage

Orig Pub : Nauchm. tr. Ukr. n.-i. in-to ovoshchevodstva i kartofelya, 1957,

No 4, 257-263

Abstract: This study identified the group of fungi which cause potato

dry rot in Khar kovskeye Oblast: Fuserium coeruleum, F. solani v. eumartii, F. sambucinum v minus, F. solani, F. avenaceum. The agents of dry rot are able to develop within wide temperature li its (from 2 to 350), wide limits of hunidity (from 40 to 10 perent) and CO2 concentration (to 30 percent). The optimus conditions for their development are as follows: temperature 17-25°, relative humidity of the air -

: 1/1 above 70 percent and a free inflow of air. -- Ye.S. Card

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VITUKEVICH, E.R., Cand Bio Sci — (dies) "Affliction of potato tubers with dry rotional storage and measures of combatting it."

Khar'kov, 1958. 16 pp (Lin of Agr USSR. Khar'kov Order of Labor Red Banner Agr Inst im V.V. Dokuchayev), 150 copies (KL, 30-58, 124)

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| • | PHASE I BOOK EXPLOITATION SOV/624 | 16 | |
| | Soveshchaniye po tseolitam. 1st, Leningrad, 1961. | | • |
| | Sinteticheskiye tseolity; polucheniye, issledovaniye i primeneniye (Synthetic Zeolites: Production, Investigation, and Use). Moscow, Izd-vo AN SSSR, 1962. 286 p. (Series: Its: Doklady) Errata slip inserted. 2500 copies printed. | | |
| | Sponsoring Agency: Akademiya nauk SSSR. Otdeleniye khimicheskikh nauk. Komisiya po tseolitam. | | |
| | Resp. Eds.: M. M. Dubinin, Academician and V. V. Serpinskiy, Doctor of Chemical-Sciences; Ed.: Ye. G. Zhukovskaya; Tech. Ed.: S. 1 Golub'. | r. | , |
| | PURPOSE: This book is intended for scientists and engineers engage, in the production of synthetic seclites (molecular sieves), and for chemists in general. | ed . | , |
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| : | | 128 | |
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| | Synthetic Zeolites: (Cont.) | 80V/6246 | |
| | COVERAGE: The book is a collection of reports Conference on Zeolites, held in Leningrad le at the Leningrad Technological Institute impurportedly the first monograph on this subgrouped into 3 subject areas: 1) theoretic tion on various types of zeolites and method gation, 2) the production of zeolites, and zeolites. No personalities are mentioned, dividual articles. | through 19 March 1961 eni Lensovet, and is ject. The reports are cal problems of adsorp- | |
| | TABLE OF CONTENTS: | | |
| | Poreword | 3 | • . |
| | Dubinin, M. N. Introduction | 5 | ٠. |
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| e e e e e e e e e e e e e e e e e e e | Misin, M. S., L. M. Faksimova, V. A. Litvinova, and L. B. Khandros. Production and Adsorption Properties of NaA, NaP, CaA and CaP Zeolites | 135 | |
| daybe to an extension | Misin, M. S., L. M. Maksimova, V. A. Litvinova, L. B. Khandros, G. A. Polyakova, and L. S. Urin. Production and Adsorption Properties of Nax, Cax, and AgX Zeolites | 143 | |
| | Piguzova, L. I., A. V. Agafonov, A. S. Vitukhina, Y. F. Dmitriyeva, A. T. Slepneva, V. A. Burylov, and N. A. Chepurov. Synthesis Conditions and Thermal Stability of Type X Zeolites | 152 | 1 |
| | Mirskiy, Ya. V., M. G. Mitrofanov, and T. W. Bredikhina. It Exchange of Ma for Ca in Type A Synthetic Zeolite | on 167 | ; |
| : | Mirskiy, Ya. V., N. G. Mitrofanov, B. N. Popkov, L. T. Bolotov, and A. I. Mezhlumova. Froduction of Synthetic Zeolites Under Industrial Conditions | 169 | ; |
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ACCESSION NR: AP3001666

8/0065/63/000/006/0017/0021

AUTHOR: Piguzova, L. I.; Vitukhina, A. S.

TITLE: The preparation of sorbent (CaX (10X) and its catalytic properties

SOURCE: Khimiya 1 tekhnologiya topliv i masel, no. 6, 1963, 17-21

TOPIC TAGS: sorbent physicochemical properties, Na ions

ABSTRACT: A sorbent of the type CaX was prepared from NaX (13X) by means of excharging Na for Ca ions. The conditions of the full cationic exchange in the synthesis of the molecular sieves of the type CaX (10X) has been determined. It was shown that with an increase of the degree of exchange of Na to Ca, the volume of adsorption based on 1,3,5-triethylbenzene decreases. Conditions are established whereby it is possible to obtain a CaX sorbent with an increased thermal stability for use in adsorption of water. The most useful and most rational method for the quality control of the sorbents of the type NaX and CzX and for the evaluation of their properties is the sorption of 1,3,5-triethylbenzene. It was shown that the catalytic activity of the molecular sieves of the type CaX in the cracking reaction of n-decane can be high and also stable. It increases in accordance with the degree of catalytic exchange volume of Na iors in the

MINACHEV, Kball, GARTHER, V.i., 1109. Ve, L.i., VINDERINA, 142.

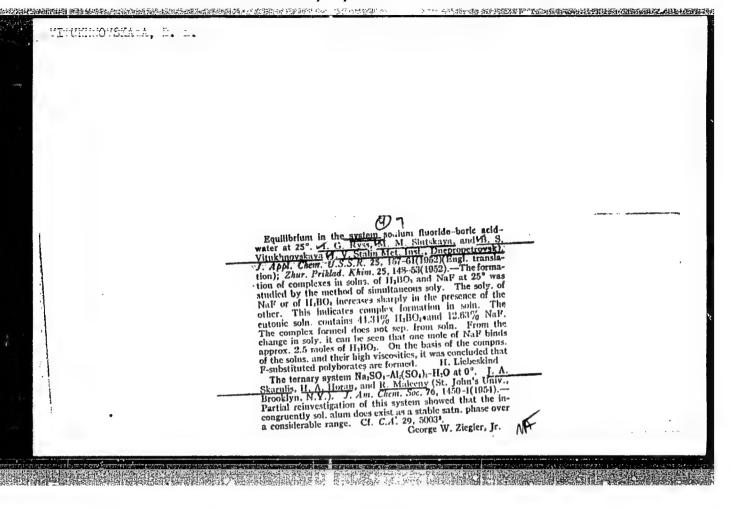
Incomplication of n-became on the (-structure maleriter siever containing pollutions, 12v.AN 57R. Ferablic, no.2111v-135 Vf., (MIRA 19-1)

1. Institut organichoskoy Phinii im. N.D.Zelinskogo AN CSCR.

Submitted August 5, 14v3.

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THE STATE OF THE PROPERTY AND A STATE OF THE PROPERTY AND

VITUKHNOVSKAYA, B. S.

USSR/Chemistry

Card : 1/1

Authors : Ryss, I. G. and Vitukhnovskaya, B. S.

Title : Potassium and ammonium hexafluoromanganiates

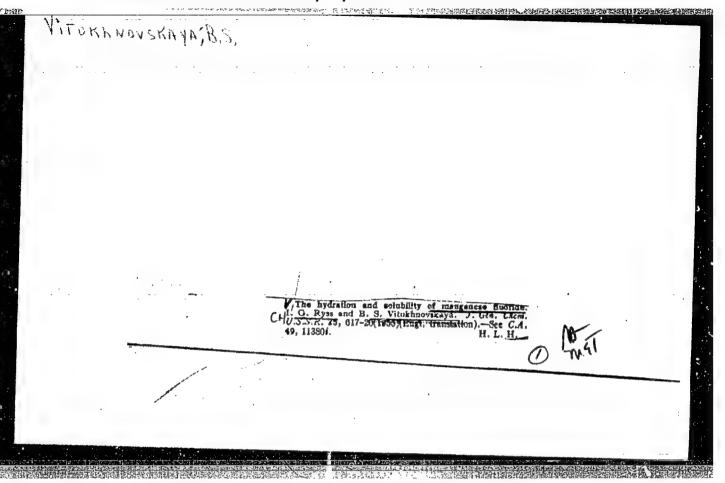
Periodical : Dokl. AN SSSR, 97, Ed. 3, 471 - 473, July 21, 1954

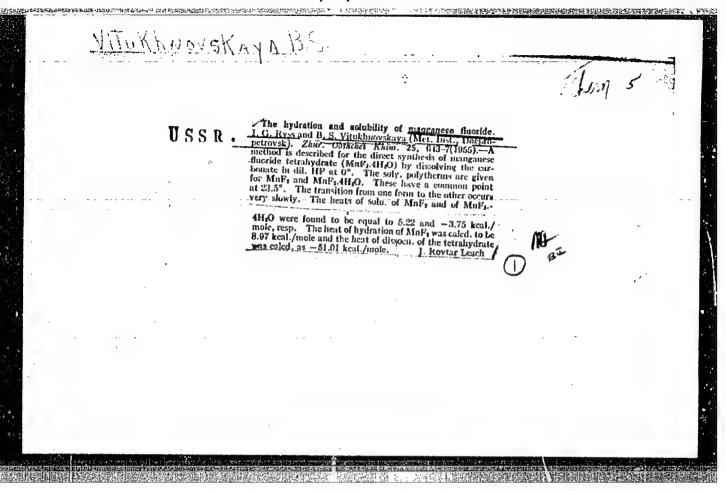
Abstract: Experiments, for the purpose of obtaining K-and Am-hexafluoromanganiates by the introduction of a Mn-trifluoride solution into the concentrated fluoride solutions with consequent filtration and washing of residues, are described. Formation of hexafluoromanganiates was observed during continuous agitation of pentafluoromanganiates with concentrated fluoride solutions. The change in composition of the solid phase was determined by the change in color and crystal forms, and the composition of the crystals was established by the radicals method. Five references: 4-USA

since 1887 and 1-USSR. Table, graphs.

Institution: The I. V. Stalin Metallurgical Institute, Dnepropetrovsk

Presented by: Academician, I. I. Chernyaev, March 26, 1954





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CIA-RDP86-00513R001860130002-0

VEKHOV, V.A.; VITUKHHOVSKAYA, B.S.; DORONKINA, R.F.

(MIRA 18:5)

1. Dnepropetrovskiy metallurgicheskiy institut, kafedra obshchey i neorganicheskoy khimii.

VITUKHNOVSKAYA, B. S., Cand of Chem Sci -- (diss) "Investigation of certain flourides of two and valent manganese." Dneproperrovsk, 1957

12 pp (Dnepropetrovsk Chemical-Engineering Institute im F. E. Dzerzhinskiy),
200 copies (KL, 31-57, 104)

5(2) AUTHORS: Ryss, I. G., Vitukhnovskaya, B. S. SOV/75-14-3-11/29

Titrimetric Determination of Manganese After Its Oxidation TITLE:

to Trivalent State (Titrimetricheskoye opredeleniyo margantsa

posle okisleniya do trekhvalentnogo sostoyaniya)

Zhurnal analiticheskoy khimii, 1959, Vol 14, Nr 3, pp 318-321 PERIODICAL:

A simple method is described for the determination of Mn2+

ABSTRACT: ions, which is based on the formation of fluoro manganate.

The first experiments with KNO_{χ} as oxidizing agent in the

presence of HF indicated that the oxidation of Mn2+ does not proceed quantitatively. With ammonium nitrate however exact results were obtained (Table 1). The determination of the fluoro manganate formed can be carried out iodometrically or by means of titration with Mohr's salt. Fe5+-ions do not disturb. In the presence of Cr3+ the dissolution and reduction of the precipitate of CrF3.MnF3.6H20 is accelerated by addi-

tion of boric and hydrochloric acid and the titration thus proceeds undisturbed. If Fe³⁺ and Cr³⁺ occur together, only

the titration with Mohr's salt is possible (Table 3). The presence of Co²⁺ (up to 250 mg) or Ni²⁺ (up to 70 mg) does Uard 1/2

SOV/75-14-3-11/29 Titrimetric Determination of Manganese After Its Oxidation to Trivalent

not disturb the iodometric determination of manganese (Table 4). The analysis was tried with ferromanganese alloys and yielded satisfactory results (Table 5). There are 5 tables and 9

references, 5 of which are Soviet.

ASSOCIATION: Dnepropetrovskiy institut inzhenerov zheleznodorozhnogo

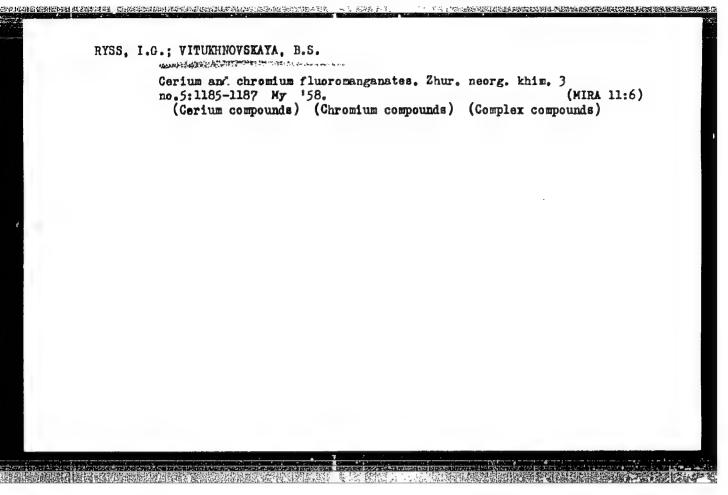
transporta (Dnepropetrovsk Institute of Railway Engineers). Dnepropetrovskiy metallurgicheskiy institut (Dnepropetrovsk

Metallurgical Institute)

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SUBMITTED: May 13, 1957

Card 2/2



V116087/1166 3/11/21

75-3-5-21/39

THE THE PROPERTY OF THE PROPER

AUTHORS:

Ryss, I. G., Vitukhnovskaya, B. S.

TITLE:

Cesium-and C comium Manganic Fluoride (Ftoromanjaniaty tseziya

· i khroma)

PERIODICAL:

Zhurnal Heorganicheskoy Khimii, 1958, Vol 3, Hr 5,

pp 1185 - 1187 (USSR)

ABSTRACT:

The syntheses of $\text{Cs}_2\text{MnF}_5.\text{H}_2\text{O}$ and MnF_3 . CrF_3 . 6 H_2O

were carried out.

 $\operatorname{Cs_2MnF_5}$. $\operatorname{H_2O}$ has light rose-colored crystals and is very

easily decomposable with water. MnF3.CrF3.6 H20 forms

difficultly soluble lilac crystals. Their composition was determined by means of chemical analyses. The gradual formation constant of the above-mentioned complexes was calculated. In aqueous solution, the following complexes can

simultaneously exist:

Card 1/2

 $\left[\operatorname{CrF}_{2}(\mathbb{H}_{2}^{0})_{4}\right]^{+}$ and $\left[\operatorname{LinF}_{4}(\mathbb{H}_{2}^{0})_{2}\right]^{-}$.

79-3-5-21/39

Cesium-and Chromium Manganic Fluoride

The probable composition of $MnF_3.CrF_3.6$ H_20 is the

There are 9 references, 4 of which are Soviet.

SUBMITTED:

May 15, 1957

AVAILABLE:

Library of Congress

1. Complex compounds -- Synthesis 2. Complex compounds -- Chemical 3. Cesium-Chemical reactions 4. Chromium manganic

fluoride -- Chemical reactions

Card 2/2

VITUKHNOVSKAYA, M.S. Determination of an economically expedient concentration of nitric acid used in the production of ammonium nitrate. Zhur. prikl. khim. 38 no.5:967-971 My 165. (MIRA 18:11)

VITUKHNOVSKAYA, M.S.; BELYANSKAYA Ye.A.

Use of reductants for the regeneration of spent sulfuric acid. Zhur. prikl. khim. 33 no.11:2427-2434 N *60. (MIRA 14:4)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut. (Sulfuric acid)

VITUKHNOVSKAYA.M. S.

Vitukhnovskaya, M. S. - "The problem of the preparation of hydrogen peroxide on a crude coal-tar base," Authors: M. B. Kartsynel', R. B. Yampol'skaya, M. S. Vitukhnovskaya and M. A. Dokukin. Nauch. zapiski (Dnepropetr. gos. un-t), Vol XXXIII, 1948, p. 43-45

SO: U-5240, 17, Dec. 53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949).

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SIBLIKOVA, O.; VACHEK, J.; CERNA, M.; TESAREK, R.; VITULOVA, V.

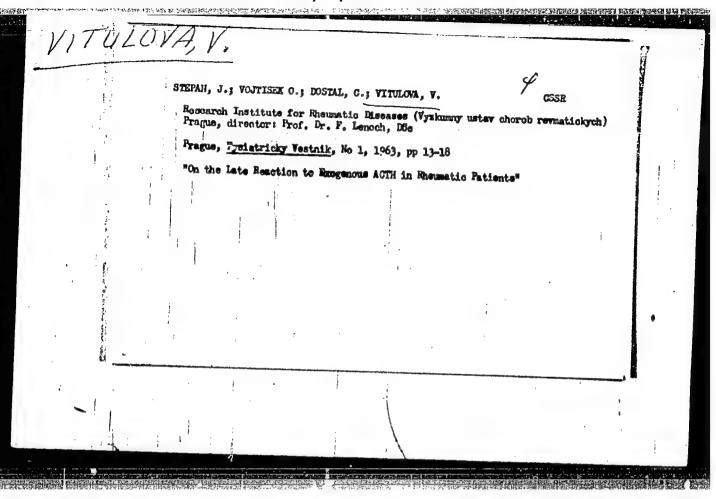
Contribution to the metabolism of ketophenylbutazone. I. Cesk. farm. 11 no.3:118-123 Mr 162.

1. Vyzkumny ustav pro farmacii a biochemii, Praha Vyzkumny ustav chorob revmatickych, Praha.
(PHENYLBUTAZONE rel cpds)

LENOCH, F. prof. dr., DrSc.; VITULOVA, V.; HAVELKA, S.; SUSTA, A.

Secondary gout in hematopoietic diseases. Cas. lek. cesk. 104 no.14:387-391 9 Ap. :65.

Vyzkumny ustav chorob revmatickych v Praze (reditel: prof. dr. F. Lenoch, DrSc.)



THE PROPERTY OF THE PROPERTY O

VITULOVA, V.; MARTINEK, K.

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An uncommon complication of gold therapy. Pysiat. vesta. 43 no.6:356-359 D * 65.

1. II. interni klinika (prednosta: prof. dr. J. Polcak) a III. interni klinika (prednosta - prof. dr. Pojer) lukurske fakulty University J.E. Purkyne, Beno.

Diabotic neurogenic arthropathy. Pysiat. vents. 43 no.62360-363
D 65.

1. II. interni klinika lekarske fakulty University J.E. Purkyne, v Brno (prednosta: prof. dr. J. Polcak).

GOGUADZE, V.P.; IVANOV, T.N.; VITULTUKAYA, N.V.; KVUZELAVA, V.M.; NATROSHVILI, D.R.; PANKVELAZEVILI, A.G.

Solubility of hydroxylamine culfate in cyclohexanone ar the separation of the cyclohexanone oxime complex system Soob. AN Gruz. SSR 37 no.3:567-572 Mr 465. (MIRA 18:5)

1. Institut prikladnov khimii i elektrokhimii AN GruzSSR, Ibilisi. Submitted June 15, 1964.

GOGUADZE, V.P.; IVANOV, T.N.; VITUL'SKAYA, N.V.; NATROSHVILI, D.H.; KVESELAVA, V.M.

Permanganate number, fusibility, and refractive index of the mystom &-caprolactam - cyclohexanoxime. Soob. AN Gruz. SSR 38 no.2:303-308 My 165. (MIRA 18:9)

1. Institut prikladnoy khimii i elektrokhimii AN GruzSSE, Tbilisi. Sulmitted June 15, 1964.

VITUSHINSKIY. V.I.. prof.; GUGLIN, E.R., kand.med.nauk; NEDOGODA, V.V.

Posttraumatic chronic ansurysm of the heart. Kaz.med.zhur. no.5:
59-60 S-0 '60.

1. Iz kafedr propedevticheskoy terapii (zav. - prof. I.V.Zherdin) i patclogicheskoy anatomii (zav. - prof. V.I.Vitushinskiy Stalingradskogo meditsinskogo instituta i Stalingradskoy oblastnoy klinicheskoy bol'nitsy (glavvrach - A.I.Gusev).

(ANEURYSMS)

(HEART--DISEASES)

VITUSHINSKIY, V.I., prof. MIRONOVICH, Ye.N., dotsent

"Research papers of the experimental morphology laboratory of the Stalingrad Province Oncological Dispensary." no. 1. Arkh. anat. gist. i embr. 38 no. 5:119-121 My '60. (MIRA 14:2)

l. Adres avtorov: Stalingrad, ul.Lenina, Meditsinskiy institut.
(MORPHOLOGY)

```
VITUSHINSKIY, V.I.; IVANOV, N.P. (Stalingrad)

Intrapericardial cardiac teratoma in a newborn, Arkh.pat. 21 no.4:
71-72 '59. (MIRA 12:12)

1. Iz kafedry patologicheskoy anatomii (zav. - prof. V.I. Vitushinskiy) Stalingradskogo gosudarstvennogo meditsinskogo instituta.

(HRART, neoplasms,
tertoma in newborn (Rns))

(TERTOMA, in inf. & child,
heart, in newborn (Rns))

(INFAMT, MEMEGEN, dis.
teratoma of heart (Rns))
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USSR / Human and Animal Physiology. Blood Chemistry.

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Abs Jour

: Ref Zhur - Biol., No 15, 1958, No. 69991

Author

: Vitushinskiy, V. I.; Sergeyenko, I. I.

Inst

: Stalingrad Modical Institute

Title

: Changes in the Bone Marrow in Dogs Following Massive Hemorrhage with Subsequent Injection of Specific Serum

Orig Pub

: Sb. nauchn. rabot teor. i klinich, kafodr. Stalingr. med.

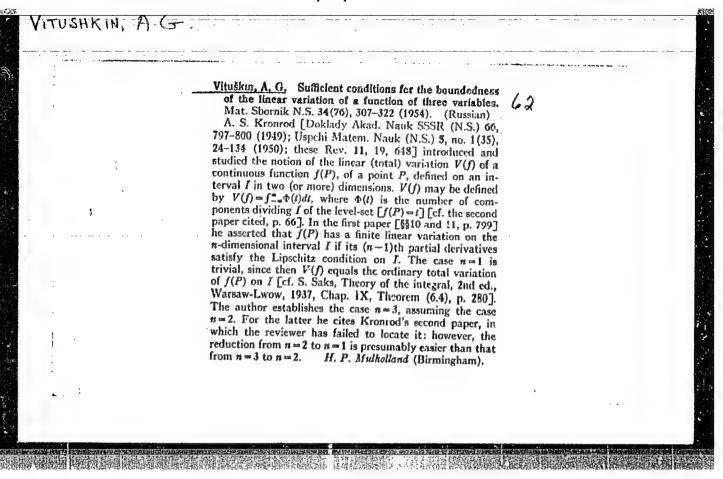
in-ta, Stalingrad, 1956, 37-43

Abstract

: Five dogs were subjected to loss of blood equal to three to five percent of the body weight. Within 30-60 min the dogs were transfused with specific serum "hemoinfusion" (H) to a volume equal to the amount of blood lost. The bone marrow (BM) was studied prior to and seven to eight days after the injection of the H, while in two surviving dogs, the marrow was studied in 12-15 days. Following transfusion of H, the BM showed an increase in the number

Card 1/2

37



VITUSHKIN, A.G.

Certain estimates for set variations. Dokl.AN SSSR 95 no.3:433-434 (MLRA 7:3)

Nr '54.

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.

Predstavleno akademikom A.E.Kolmogorovym.

(Geometry, Differential---Projective) (Aggregates)

VITUSHKIN. A.G.

Thirteenth Hilbertian theorem. Dokl.AN SSSR 95 no.4:701-704
Ap '54. (MIRA 7:3)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
(Functions, Analytic)

CIA-RDP86-00513R001860130002-0 "APPROVED FOR RELEASE: 09/01/2001

COLUMN CONTRACTOR DE CONTRACTO

VITUSHKIN, A. G.

USSR/Mathematics

Card

: 1/1

Authors

: Vitushkin, A. G.

Title

: Determination of set variations and the metric law of duality

Periodical: Dokl. AN SSSR, 96, Ed. 5, 893 - 896, June 1954

Abstract

: The article deals with generalization of the concept on variations of the Kronard's functions with two variables and formulation of the metric law of duality. Two definitions are given for variations of subsets in the Euclidian space (inductive and constructive variations) and, applying the terms used in the definitions of the variations of functions, formulates the metric law of dualities.

Institution :

Presented

: Academician, A. N. Kolmogorov, March 24, 1954

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860130002-0"

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VITUSEKIN. A. C.

USSIR/ Mathematics

Authors ··

2 - Vitushkin, A. G.

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Title

Variations of functions of many variables and satisfactory conditions for their limitedness.

Periodical

Dokl. AN SSSR, 96, Ed. 6, 1089 - 1091, June 1954

Abstract

Various theories are cited with respect to the variations of functions of many variables and the conditions for their limitedness. According to the Banach theory a single variation $V_1^{\perp}(f)$ for a continuous function $f(x_1)$ determined on a certain section is numerically equal to the change of $\bar{f}(x_1)$ on this section. It is thus evident that a single variation of a function is identical to the linear A. S. Kronrod variation. One reference.

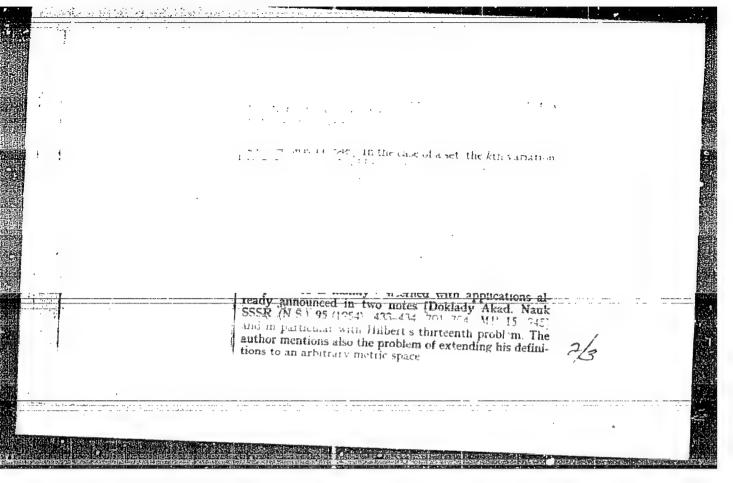
Institution : The M. V. Lomonosov State University, Moscow

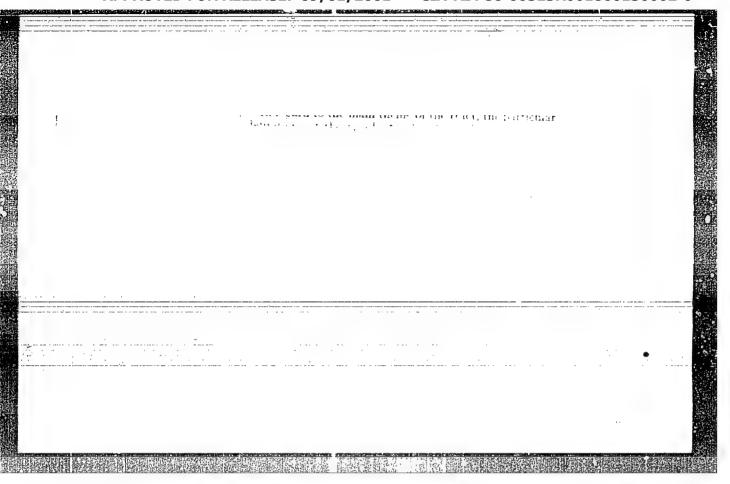
Presented by : Academician A. N. Kolmogorov, March 24, 1954

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860130002-0"

| SHKIN A.G. (Finatohij Georgiyevich) Na Vituskin, A.G. O mnogoniernyh varinchvah 10n /1 |
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| TehnTeor. Lit., Moscow, 1955. 220 pp. 5.65 radies The central visua (visual visual visual which |
| and on for all smaller to One rather more satisfactory string of the which the earth or does not inpution, and which are still related by inequalities, is furnished by the cross-section integrals (Quermassintegrale) of the theory of convex figures: the litter have been extended to sets by Ohio and Mark 1997. |
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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860130002-0"





VITUSHKIN A.

USSR/ Mathematics - Urygohn's problem

Card 1/1

Pub. 22 - 1/50

Authors

Vitushkin, A.

Title

Remarks on the Sitnikov solutions of a Urysohn problem

· 1987年 通过共和 中 大学 1845年中共共和国的共和国的共和国的

Periodical

DOK. An SSR 100/1, 5-8, Jan. 1, 1955

Abstract

An analysis is presented of the Sitakov negative answer (solution) to the Urysohn question as to whether every (n-1) dimensional set can cut a ball of an n-dimensional Euclidean space in such a way that there would be a pair of points which cannot be connected with a plain curve by any continuum. It was found that the Sitakov solution would turn into a positive solution, if one considers the cutting of this ball from a homological point of view. A series of lemmes are proved in order to get a positive solution of the Urysohn problem even in such cases where the cutting of the ball is considered in the theoretically-set sense (topological). Two USSR references: (1952 and

1954).

Institution :

The M. V. Lomonosov Moscow State University

Presented by :

Academician P. S. Alexandroff, June 11, 1954

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860130002-0"

VITUSHKIN, A. G. Cand Phys-Math Sci -- (diss) "Variations of the sufficient Conditions for Their Limited Conditions for Their Restriction." Mos, 1957. 6 pp 22 cm. (Mos State Univ im M. V. Lomonosow), 130 copies (KL, 25-57, 108)

- 6 -

VITUSHKIN, A. G., Doc Phys-Math Sci -- (diss) "On the difficulty of the task of tabulating." Mos, 1957. 18 pp (Acad Sci USSR, Math Inst im V. A. Steklov), 125 copies (KL, 52-57, 102)

- 1 -

20-114-4-3/63

AUTHOR:

Vitushkin, A. G.,

TITLE:

The Connection Between Variations of a Set and the Metric Properties of Its Complement (Svyaz' variatsii mozhestva s metricheskimisvoystvami dopolneniy)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1957, Vol. 114, Nr 4, pp. 686-689

ABSTRACT:

The present paper precisely explains results obtained previously (A.G. Vitushkin: O mnogomernykh variatsiyakh (On multidimensional variations), Moscow, 1955), which express the connection between the variation of a set and the metric properties of its. completment. The following is proved: If a set approximates another set with sufficient accuracy, the variations of the first set have to be large compared with the entropy of the seccond set. Such results lead to some interesting evaluations of the theory of tabulation. Two theorems and 6 lemmata are given and also their proofs are carried out or at least indicated. There are 3 references, 3 of which are Slavic.

Card 1/2

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860130002-0"

The Connection Between Variations of a Set and the Metric 20-114-4-3/63 Properties of Its Complement

ASSOCIATION: Moscow State University imeni M.V. Lomonosov (Moskovskiy

gosudarstvennyy universitet im. M.V. Lomonosova)

PRESENTED: December 26, 1956, by A.N. Kolmogorov, Member of the Academy

SUBMITTED: December 25, 1956

Card 2/2

VITUSHKILL

20-5-2/(4)

AUTHOR TITLE

MERIODICAL

ABSTRACT

VITUSHKIN, A.G.

Some Estimates from the Tabulation Theory
(Nekotoryye otsenki iz teorii tabulirovaniya. Russian)
Doklady Akademii Nauk SSSR, 1957, Vol 111, Nr 5, pp 923-926(U.S.S.Z.)

Let the function f of a certain family be assumed as given. This function f must be introduced into the memory of a machine, or a table of p numbers must be set up, by means of which it is possible to set up f with the assumed accuracy Not more than k of the simplest operations are necessary for ecaputation. From the definition of the entropy $H_{\mathcal{E}}(F) = \log N_{\mathcal{E}}(F)$ the following is easily obtained. In the case of an arbitrary manner of expressing the function (from which we know that it belongs to F) not less than $p > H_{\mathcal{E}}(F)$ double discharges are necessary for its accumulation. It is usually of importance to know not only the amount of the information contained in the object to be studied, but also the degree of complexity with which this information is given. In the case of the simplest functional spaces it is necessary that the amount p of the rea. parameters to be accumulated and the number k of the elementary or erations (which must be of an accuracy of up to E for the purpose of computing the function from F), satisfy the inequation p.log \gg AH $_{\epsilon}$ (F). Here A > 0 denotes an absolute constant. The problem under investigation is then fomulated in a more concrete form. The most natural methods of

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20-5-2-/60

Some Estimates from the Tabulation Theory

tabulation are apparently an ε -representation in the here defined sense. Actually, every method of this kind is reduced to the following. By means of arithmetical operations an assumed group of formulae is calculated with several assumed parameters. The values obtained are compared with an assumed set of constants, or these values are compared among themselves. In dependence on the results obtained by these comparisons some of the computed parameters are inserted into any of the assumed groups of formulae etc. If this process is repeated several times, the desired result is obtained. Such methods apparently fit into the framework of the definition given. The author then discusses a certain ε -representation of the family ε . Three pertinent theorems are given and proved (No illustrations).

ASSOCIATION PRESENTED BY SUBMITTED Not given

VITUSHKIN, A.G., Member of the Academy

25.12.1956

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Library of Congress

Card 2/2

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"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860130002-0

20-5-4/54

AUTHOR: VITUSHKIN, A.G.

TITLE: Absolute &-Entropy of Metric Spaces (Absolyutnaya &-entropiya

metricheskikh prostransty),

PERIODICAL: Doklady Akademii Nauk, 1957, Vol. 117, Nr 5, pp. 745-747 (USSR)

ABSTRACT: The author completes and improves Kolmogorov's definitions [Ref.1] of the \(\epsilon \)-Entropy of metric spaces and gives estima-

tions of the & -Entropy for some classes of functions. The author unfortunately chooses - without evident reason - new denotations deviating from those of Kolmogorov, so that the comparison with [Ref.1] is complicated. The author, however, does not only succeed in giving the order of the lower bound of the size of table, but also the bound itself. 2 Soviet

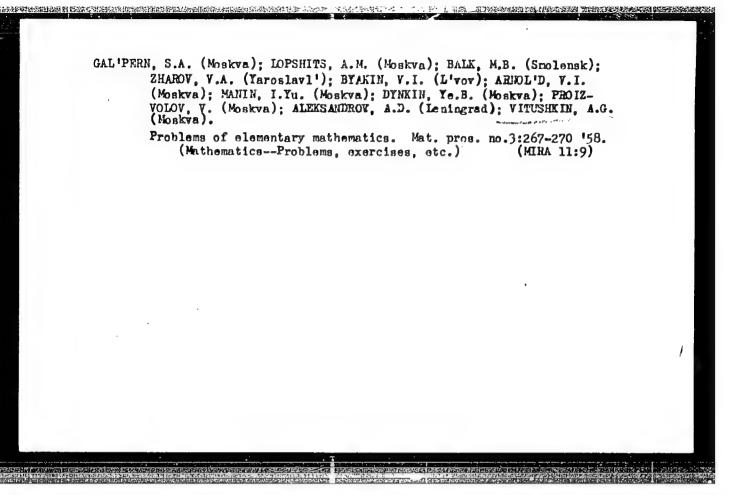
references are quoted.

PRESENTED: By A.N. Kolmogorov, Academician, 19 October 1957

SUBMITTED: 1 August 1957

AVAILABLE: Library of Congress

Card 1/1



20-119-3-4/65 Vitushkin, A.G. AUTHOR: On Best Approximations of Differentiable and Analytic Functions (O nailuchshikh priblizheniyakh differentsiruyemykh TITLE: i analiticheskikh funktsiy) Doklady Akademii Nauk, 1958, Vol 119, Nr 3, pp 418-420 (USSR) PERIODICAL: The present paper is a continuation of the author's investigations formerly published [Ref 1,2] . Let $E_{\mathbf{r}}^{\mathbf{z}}$ be the space ABSTRACT: of the complex variables $z_1, \dots z_r$; g a subset of E_r^2 , F a set of complex functions on g. Let $\left\{f_{\omega_1}, \dots, \sigma_n\right\}$ and $\left\{ \phi_{\beta_1, \dots, \beta_m} \right\}$, $\sum_{i=1}^n \alpha_i \leqslant s$, $\sum_{j=1}^m \beta_j \leqslant s$ be two given finite function sequences; furthermore let be $f \in F$. Let $e_{s,n,m}^{f}(F)$ denote the greatest lower bound of the norm of

Card 1/4

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On Best Approximations of Differentiable and Analytic Functions

20-119-3-4/65

(1)
$$f = \frac{\sum_{d_1 + \dots + d_n \leq 8} \prod_{i=1}^{m} (a_i)^{d_i} f_{d_1}, \dots, d_n}{\sum_{\beta_1 + \dots + \beta_m \leq 8} \prod_{j=1}^{m} (b_j)^{\beta_j} \varphi_{\beta_1}, \dots, \beta_m} (x)$$

if the complex numbers a_1 , a_2 ,..., a_n ; b_1 ,..., b_n run through all possible values. Furthermore let $e_{s,n,m}(F)$ be the least upper bound of $e_{s,n,m}^f(F)$ for all $f \in F$.

Theorem: Let g be an r-dimensional closed parallelepiped, $F = F_{p+d}$ the space of all p-times differentiable, real functions bounded on g by c > 0, the p-th derivatives on g

functions bounded on g by c > 0, the p-th derivatives on g satisfy the Hölder-condition with the constant 1 and the exponent &. Then it is

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20-119-3-4/65

On Best Approximations of Differentiable and Analytic Functions

e_{s,n,m} (F_{p+}
$$\sim$$
) $\gg \left[\frac{A(F_{p+})}{(n+m+1)1g_2(2+s)}\right]^{(p+d)/r}$

where the constant $A(F_{p+d}) > 0$ only depends on p, d, l, c, r

A similar theorem for analytic functions in a bounded domain g. A further theorem contains a condition which s,n,m must satisfy, if a given exactness & is obtained by an approximation of the type (1).

The following assumption of the author seems to be of interest: An analytic function can be approximated much more exactly by a rational function

$$\sum_{k=0}^{n} a_k z^k : \sum_{k=0}^{n} b_k z^k$$

than by a polynomial of (n+m)-th degree. There are 2 : oviet references.

card 3/4

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860130002-0"

On Best Approximations of Differentiable and Ana-

20-119-3-4/65

lytic Functions

PRESENTED:

November 19, 1957, by A.N. Kolmogorov, Academician

SUBMITTED:

November 19, 1957

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Card 4/4

50V/20-123-5-2/50 16(1) Vitushkin, A.G. Analytic Capacity of Sets and Some of Their Properties AUTHOR: (Analiticheskaya yemkost! mrozhestv i nekotoryye yeye svoystva) PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 5, pp 778..781 (USSR) TITLE: Let e be a bounded set of the complex plane Z. Let the function $\varphi(z)$ be a) defined everywhere on Z-e, $|\varphi(z)| \le i$, b) analytic everywhere outside of e, and c) $\lim_{z \to \infty} \varphi(z) = 0$. Let $\chi(e, \varphi) = 0$ ABSTRACT: $|z\varphi(z)|$ and $\delta(e) = \sup_{z \in \mathcal{F}} \delta(e, \varphi)$. According to V.D. Yerokin, the function Y (e) is called the analytic capacity of the set e. The author enumerates 13 properties of & (e), e.g. 1. from e" De' there follows $Y(e^n) \geqslant Y(e^n)$; 2. if e is a continuum, then $AY(e) \leq d(e) \leq BY(e)$, where d(e) is the diameter of e and A>0, B>0 are absolute constants. Furthermore there holds the theorem: If $\varphi(z)$ satisfies the conditions a),b),c), then it can be outside of the sma lest represented in the form $\varphi(z) = \sum_{k=1}^{\infty} \frac{c_k}{(z-a)^k}$ circle containing e; here a is the center of the circle and $|e_u| \leq A \delta(e) [d(e)]^{k-1}, A>0.$ Card 1/2

Analytic Capacity of Sets and Some of Theur Properties 507/20-123-5-2 9

Let C_e be the complement of a in the C_p -plane, let G_z^r be an open circle of the radius r with the center x_i let K_z^n be the closed ring between the carolles with the radii $r_n = \frac{1}{cn}$ and

 $r_{n+1} = \frac{1}{2^{n+1}}$. Let $P_z^r(e) = \frac{1}{r} \tilde{e}^r(e) (e) (f(e)) P_z(e) = \inf_{z \to 0} P_z^r(e)$.

Theorem: For no zee let $\sum_{n=1}^{\infty} \left(\frac{1}{n}\right)^2 \mathcal{E}(0, \Lambda \mathbb{R}^n) < \infty$. Then for all r

and z it holds $P_z^r(C_e) \geqslant \gamma(C_e)$.

The author announces further results.

PRESENTED: October 8, 1958, by A.N.Kolmegorov, Academician

SUBMITTED: September 30, 1958

Card 2/2

16(1) AUTHOR:

SOV/20-123-6-1/50

TITLE:

Some Theorems on the Possibility of a Uniform Approximation of Continuous Functions by Analytic Functions (Nekotoryye teoremy o vozmozhnosti ravnomernogo priblizheniya nepreryvnykh funktsiy analiticheskimi funktsiyami)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 6, pp 959-962 (USSR)

ABSTRACT:

The present paper is a direct continuation of the author's paper [Ref 2] published in the preceding Nr 5 of this periodical. The assertion of the theorem of [Ref 2] is strengthened, it holds

 $P_2^r(C_e) = 1$. Under the assumptions of the theorem of [Ref 2] it holds: Every function uniformly continuous on e can be approximated uniformly and arbitrarily exact by a function analytic in a certain neighborhood of e. Furthermore: If e is closed and if the analytic density in every accumulation point of e is greater than E, E, 0, then for the developability of a function f(z) into a uniformly convergent series of rational functions it is necessary and sufficient that f(z) is continuous on e and that it has a derivative in every inner point of e. Seven theorems and five lemmas with partly sketched proofs are given.

Card 1/2

Some Theorems on the Possibility of a Uniform Approximation SOV/20-123-6-1/50 of Continuous Functions by Analytic Functions

There are 3 Soviet references.

PRESENTED: October 8, 1958, by A.N.Kolmogorov, Academician

SUBMITTED: September 30, 1958

Card 2/2

Vitushkin, Anatoliy Ceorgiyevich

Theory of the transmission and processing of information. New York, Pergamon Press, 1961.

xvi, 206 p. tables.

Translated from the original Russian: Otsenka slozhmosti Zadachi tabulirovaniya, Moscow, 1959.

References: p. 197.

PHASE I BOOK EXPLOITATION

807/3929

Vitushkin, Anatoliy Georgiyevich

Otsenka slozhnosti zadachi tabulirovaniya (Estimating the Complexity of the Tabulation Problem) Moscow, Fizmatgiz, 1959. 228 p. (Series: Sovremennyye problemy matematiki) 7,000 copies printed.

Eds.: M.Ya. Antonovskiy and M.M. Goryachaya; Tech. Ed.: S.S. Gavrilov.

PURPOSE: This book is intended for graduate students and scientific workers in the field of mathematics and cybernetics.

COVERAGE: The author derives a numerical estimate of the degree of difficulty of the problem of tabulation for different classes of functions. Several specific methods of constructing tables so as to give optimum results are presented. The author bases his conclusions on the results of the theory of functions, among them his own investigations published in the monograph 0 mnegomernykh variatsiyakh. It is necessary to evaluate the quality of the various tabulation methods in order to automate the selection of the tabulating method with the aid of digital computers. This work, therefore, is the first step toward utilizing

Cara 1/5

Estimating the Complexity of the Tabulation Problem

807/3929

the concepts of the theory of functions in the field of computer mathematics. The first three chapters deal with the concept of the E- entropy of a metric space and with estimates of the & - entropy of several spaces of analytical and differentiable functions. The fourth and fifth chapters consider variations of subsets of Euclidean spaces and estimate the variations of several specific sets (algebraic surfaces). The two last chapters introduce estimates of the complexity of setting up tables for several specific classes of functions (for instance, for analytical and differentiable functions). The author thanks A.A. Lyapunov and A.L. Brudno. The author credits a student at Moscow University, V.I. Arnol'd, for his refutation of the Hilbert hypothesis. There are 11 references: 8 Soviet, 2 German, 1 English (in Russian translation).

TABLE OF CONTENIS:

| Preface | | 7 |
|---|-----|----------------------|
| Introduction | | 9 |
| Ch. I. Concept of the Entropy of a Metric Space 1. A table and its volume 2. Entropy of discrete sets 3. Concept of the relative E - entropy | . • | 15 15 18 19 |
| | | |

16(1)
AUTHOR:

Vitushkin, A.G.

Example of a Set of Positive Length With Zero Analytic Capacity

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 2, pp 246-249 (USSR)

By the construction of a counter-example (a set of positive length with a vanishing analytic capacity) the author refutes length with a vanishing analytic capacity). 1 theorem and an inequation of his earlier paper [Ref 3]. 1 theorem and

4 lemmas are formulated.
There are 3 references, 2 of which are Soviet, and 1 American.

3

RESENTED: April 1, 1959, by A.N. Kolmogorov, Academician.

SUBMITTED: April 1, 1959

Card 1/1

4

- 16(1) AUTHOR:

SOV/20-128-1-3/58

TITLE:

Necessary and Sufficient Conditions for a Set in Order That Vitushkin, A.G. any Continuous Function on it Could be Approximated Uniformly by Analytic or Rational Functions

PERIODICAL:

Doklady Akademii nauk SSSR,1959,Vol 128,Nr 1,pp 17-20 (USSR)

ABSTRACT:

Let τ be the z-plane, z=x+iy; e a bounded subset of τ ; Ce complement of e in τ ; γ (e) the analytic capacity of e; a closed circle in T with the radius r and center z.

Theorem : In order that every complex function f(z) uniformly continuous on e can be approximated with every given exactness on e by a function analytic in a certain neighborhood of

e, it is necessary and sufficient that for every circle \mathcal{T}_{2}^{r} the equation

$$\frac{\sigma}{\gamma(ce \cap \sigma_z^r)} = r = \gamma(\sigma_z^r)$$

The author gives two further formulations of the same theorem

Card 1/2

SOV/20-126-1-3/58 Necessary and Sufficient Conditions for a Set in Order That any Continuous Function on it Could be Approximated Uniformly by Analytic or Rational Functions

and one conclusion.

处于是国际的国际,但我们还会找完全的目标的关系,但可能自然的问题,但可以是可以是不够的问题。 第一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,

S.H. Mergelyan, M.A. Lavrent'yev, and M.V. Keldysh are

mentioned.

There are 2 Soviet references.

May 14, 1959, by A.K. Kolmogorov, Academician PRESENTED:

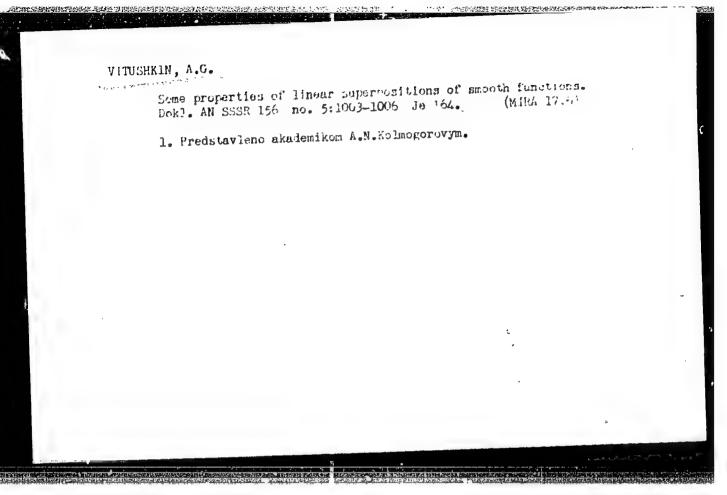
May 13, 1959 SUBMITTED:

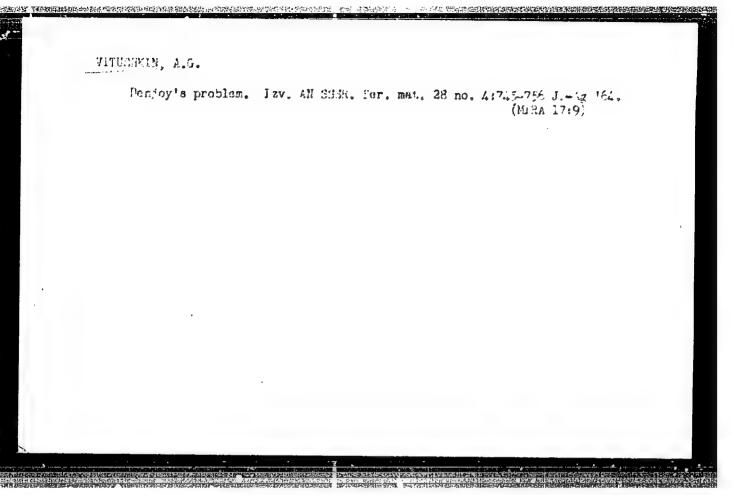
Card 2/2

VITUSHKIN, A.G.; IVANOV, L.D.; MEL'NIKOV, M.S.

Incommensurability of the minimal linear measure with the set length. Dokl. AN SSSR 151 no.6:1256-1259 Ag '63. (MIRA 16:10)

1. Predstavleno akademikom A.N.Kolmogorovym.





VITUSHKIN, A.G.

Proof of the existence of analytic functions of several variables not representable by linear superpositions of continuously differentiable functions of fewer variables. Dokl. AN SSSR 156 no.6:1258-1261 Je '64. (MIRA 17:8)

1. Predstavleno akademikom A.N. Kolmogorovym.

KOROBOVA, Nina Mikhaylovna; VITUSHKIN, B.I., red.; PRESNOVA, V.A., tekhn. red.

[Labor productivity in agriculture and ways for increasing it] Proizvoditel'nost' sel'skokhcziaistvennogo truda i puti ee povysheniia. Leningrad, Lenizdat, 1962. 60 p. (MIRA 16:2) (Leningrad Province--Agriculture--Labor productivity)

VITUSHKIN, N. I., NARYADCHIKOV, D. I., PETROVSKIY, V. I. and ZATULOVSKIY, V. I.

"Sources of Ionizing Radiation for Radiation-chemical Research"

Truly Transactions of the First Conference on Radioaction Chemistry, Moscow, Izd-vo AN SSSR, 1958. 330pp.
Conference -25-30 March 1957, Moscow

KUZMINSKIY, A. S., NIKITINA, T. S., ZHURAVSKAYA, E. V., OKSENT'YEVICH, L. A., BUNITSA, L. L., and VITUSHKIN, N. I.

VITUSHOW N. J.

"The Effect of Ionising Radiations on Crude and Vulcanized Rubbers,"

paper to be presented at 2nd UN Intl. Conf. on the peaceful uses of Atomic Energy, Geneva, 1 - 13 Sep 58.

KUZ'MINSKIY, A.S.; RUZER, L.S.; SUNITSA, L.L.; Prinimali uchastiye:
VINOGRADOV, V.V.; VITUSHKIN, N.I.; YEVLAMPIYEV, A.I.; GSIPOV, V.B.

Apparatus with a source of gamma rays of Co⁶⁰ 116,000 g-equivalent of radium for radiochemical investigations of crude and vulcanized rubbers. Kauch. i rez. 20 no.11/8-10 N '61.

1. Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti.
(Rinbber)

(Gamma rays)

"APPROVED FOR RELEASE: 09/01/2001

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ACC NR: AT6034057

SOFRCE CODE: UR/3000/66/000/000/0160/0164

AUTHOR: Morozov, Yu. L.; Vitushkin, N. I.; Glazunov, P. Ya.; Rafikov, S. R.; Khomutov, A. I.; Tsetlin, B. L.

ORG: Institute of Organometallic Compounds AN SSSR (Institut elementoorganicheskikh soyedineniy AN SSSR); Scientific Research Institute for Fiberglass (Nauchnoissledovatel'skiy institut steklovolokna); Institute of Physical Chemistry AN SSSR (Institut fizicheskoy khimii AN SSSR)

TITIE: Radiation gas phase graft polymerization on glass fibers

SOURCE: Simpozium po radiatsionnoy khimii polimerov. Moscow, 1964. Radiatsionnaya khimiya polimerov (Radiation chemistry of polymers); doklady simpoziuma. Moscow, Izd-vo Nauka, 1966, 160-164

TOPIC TAGS: radiation polymerization, graft copolymer, polymerization kinetics, glass fiber, acrylonitrile

ABSTRACT: The kinetics of radiation gas phase graft polymerization onto inorganic surfaces were investigated using X ray tube TRTs-Ja as the radiation source, acrylonitrile as the monomer, and three types of glass fibers as substrate—

1) conventional nonalkaline nonporous glass fiber, 6-7 micron diameter; 2) fine-pored (6-7 Å effective pore diameter) fiber made by treating the former with hydrochloric

Card 1/2

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acid; and, 3) coarse-pored fiber (40 % effective pore diameter) made by acid treatment of sodium borosilicate fiberglass. Reaction rates were measured directly under the beam with the help of a McBain type device. Induction of the graft polymerization reaction on the nonporous fiber was slow; with the porous materials the induction period was short, with more polymer forming on the coarser material. However when the pores were filled, the graft polymerization reaction rate was about the same as on the nonporous surface. Initial polymerization rates on all three fibers reached limiting values with monomer concentrations -- at acrylonitrile vapor pressures were well under 100 mm Hg. In the porous samples the process rate is a linear function of the sorbed monomer concentration; the energy of activation is about 3 kcal/mol. The polymerization rate is proportional to the square root of the dosage for nonporous substrates-glass fiber, aerosil, powdered silica gel. Radical reaction mechanism was confirmed. The polymerization rate is a linear function of the desage for the fine pored material, probably due to steric hindrance inside the pores rather than to a different reaction mechanism. Reaction initiation on metallic oxide and silicate materials is probably associated with the formation of the oxygen ion radical under ionizing radiation. Orig. art. has: 4 figures.

SUB CODR: 07, 11/ SUBM DATE: 25Jul66/ ORIG REF: 007

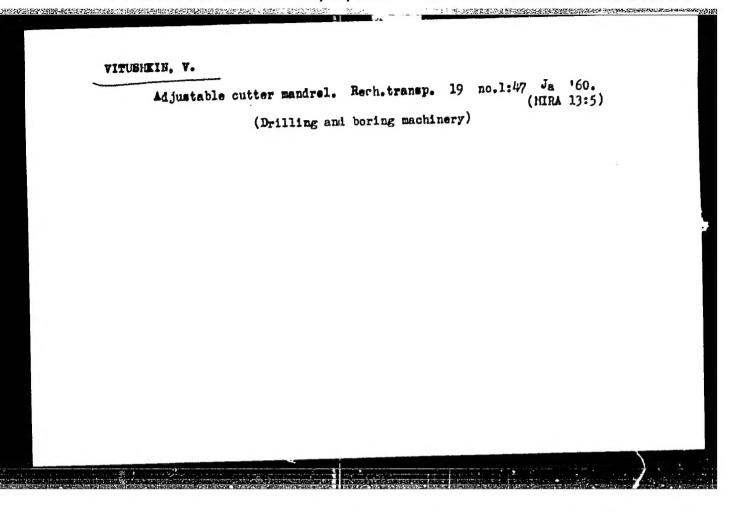
Card · 2/2

GO/RM/WII A CONTRACTOR OF THE PARTY OF TH UR/0191/65/000/005/0003/0004 ACCESSION NR: AP5012099 AUTHOR: Bessonov, A. I.; Vitushkin, N. I.; Glazunov, P. Te.; Yakurovi bi Ai Ai TITLE: Unit for gas-paese radiation-rader graft present sair F 74 SOURCE: Plasticheskiye massy, no. 5, 1965, 3-4 TOPIC TAGS: graft polymerization, gas phase graft polymerization, radiation induced graft polymerization ABSTRACT: A pilot-plant unit has been built for producing various rest polymerization projects (combining the advantages of the conpolymerization in quantities sufficient for technical testing. polymerraduse in a meastring polymen molecules to the surface of monomer and there is . The until designed to option of the monomers whose boiling point is above room temperature (Fig. 1 of the Enclosurs) or 2) with monomers which are normally gaseous.

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| ACCESSION NR: AP5012099 | | | · · · · · · · · · · · · · · · · · · · |
| first case, to prevent me | ionor-vejior conden | ation in the rea | otor and |
| maintained 30-50C below case, the gaseous monomer | the working gas tent is fed directly filable: one speci | mperature. In t rom a pressure of fically design | he second ylinder. |
| sults shown in Table 1 of results obtained in glass pediency of the scale-up ment. "The authors expressions in the disc | ampuls, indicating of this process to see their appreciat | g the feasibilit full-scale plan for to B. L. Tse | t equip- |
| during startup, and to n. Yegorov for valuable advi 1 figure and 1 table. | | | THE RESERVE THE PROPERTY. |
| AGEOCIATION: none | • . | | |
| SUBMITTED: 00 | ENCL: 02 | SUB CODE:0 | c,GC |
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| NO REF SOV: 005 | OTHER: 000 | ATD PRESS | 3246 |

BESSNONOV, A.I.; YITUSHKIN, N.I.; GLAZUNOV, P.YA.; KARAPETYAN, St.A.; PARFANOVICH, B.N.; RYABCHIKOVA, G.G.; YAKUBOVICH, A.A.

Unit for radiation gas-phase graft polymerization. Plast. massy (MIRA 18:6)



YAKIMOV, P.A.; GORSHKOV, B.G.; EBEDEV, N.A.; CHEKMEZOVA, O.V.; PETPOVA, E.B.; PODMOSTKOVA, V.A.; VITUSHKINA, A.T.

Utilization of starch-potato media in the production of penicillin. Trudy Len.ahim.-farr.inst. no.15:69-74 162. (MIRA 15:11)

1. Kafedra tekin logii antibiotikov (zav. - prof. P.A.Yakimov)
Leningradskogo khimiko-farmatsevticheskogo instituta i
Krasnoyarskiy zavod meditsinskikh preparatov (dir. - B.G.Gorshkov).

(PENICILLIN)

(.ACTERIOLOGY. CULTURES AND CULTURE MEDIA)

sov/81-59-16-56920

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 16, p 136 (USSR)

AUTHORS: Belokrinitskaya, Ye.Ye., Bondarenko, V.V., Vitushkina, I.N., Gerasimova,

M.S., Ginzburg, V.L., Gramenitskiy, T.N., Livshits, D.M., Kryzhnaya, V.F.

TITLE: The Spectral Analysis of Cobalt for Metallic Impurities With the Use of

Cast Electrodes

PERIODICAL: V sb.: Materialy 1-go Ural skogo soveshchaniya po spktroskopii, 1956.

Sverdlovsk, Metallurgizdat, 1958, pp 59-61

ABSTRACT: The samples are cast into chill molds in the forms of rods of 7 mm in dia-

meter and 40 mm long. The butts of the rods are filed to a plane and treated by a HCl solution (1:1) for cleaning from F2. The spectra are excited in an a-c arc with an upper carbon electrode and photographed with an average quartz spectrograph. The standards are prepared on the basis of pure cobalt, in which the concentration of admixtures is determined

chemically. Ni, Fe, Si, Mm, Al, Cu, As and Sb can be determined with a

mean error of 5 - 15%.

G. Kibisov

Card 1/1

VITUSHKINA I.N.

USSR/Optics - Optical Methods of Analysis. Instruments.

K-7

Abs Jour

: Referat Zhur - Fizika; No 3, 1957, 7962

Author

Inst

: Vitushkina, I.N., Ginaburg, V.L. : Noril'sk Mining and Metallurgical Combine, USSR.

Title

: Spectral Analysis of Nickel in Low Voltage Spark Using

Cast Electrodes.

Orig Pubq : Zavod. laboratoriya, 1956, 22, No 4, 438-440

Abstract

: In the determination of copper and iron admixtures in pure nickel, the spectrum is excited by a DG-1 generator, operating in the spark mode (current 2 -- 2.5 amp).

The analytic pairs of lines are Cu 3273.96 -- Ni

3286.95 A and Fe 2599.40/57 -- N 2551.01 A. The inter-

val of the determined concentrations of copper and

iron is 0.01 -- 0.5%.

The mean arithmetic error of the determination ranges

from 5 to 9%.

Card 1/1

- 105 -

Orig Pub: Zavod. laboratoriya, 1956, 22, No 11, 1331-1333

Abapparove Department of the control calibration graphs in A S, lg C coordinates, and in accordance with the solid graph method. Determinations were made of Cu, Fe, Au, Pt, Pd, Ni, Si, Mn, Pb, Sb, Bi, Sn, Co, at concentrations from several thousandth to decimal fractions of one percent, with spectrum excitation in arc discharge of direct and alternating current, and photographic recording on plates of type I, II and III. In most instances no substantial differences were found in the magnitude of errors with different calibration graphs.

: 1/1 Card

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